

KIFK15 ISM FKM 90 GLT AED -46°C

ISM COMPOUNDS
A PRODUCT OF INDUSTRIAL SPARES MANUFACTURING AND TRADING CO

Product description:

KIFK15 ISM FKM 90 GLT AED -46°C is an fluorocarbon elastomer of specialty group terpolymer, specifically crafted for the resistance of RIGID GAS DECOMPRESSION at Extreme low temperatures (GLT) and is certified to the Norsok M-710 Rev 3 Standard. The condition is the internal failure of products due to sudden release of pressure which causes the trapped air in products to expand and cause damage.

Chemistry:

The compound improves the dynamic mechanical properties including equi-biaxial stress strain characteristics which prevent the absorbed gas expansion with improved resistance to chain mobility.

Properties:

Improved low temperature properties. Lower volumetric swell and higher resistance to wide range of fluids under pressure. The compound offers resistant to combinational fluids which has severe effect on general purpose elastomers and extreme pressure ranges

Applications:

In places of high pressure gas/fluid combinations and balanced properties of fluid exposure resistivity, high gas pressure and extreme low temperature withstanding abilities are needed.

Service temperature:

-46 °C to 204 °C

Product ranges:

O-rings.

Physical properties:

S.NO	Description	ASTM Test Method	Unit	Specification
I	Hardness	D2240	Shore A	90 ± 5
II	Density	D792	gm/cc	1.85±0.05
III	Tensile Strength (Min)	D412	MPa	10
IV	100% Modulus	D412	MPa	7
V	Elongation @ break (Min)	D412	%	100
VI	Compression Set (Max) 22hrs@200°C	D395 Method B	%	25
	Compression Set (Max) 70hrs@200°C		%	35
VII	Heat Aging 70hrs @250°C	D573	Shore A	±5
	Hardness Change		%	-20
	Tensile Change (Max)		%	-20
VIII	ASTM : 1 Oil Ageing 70hrs@ 150°C	D471	Shore A	±5
	Hardness Change		%	-20
	Tensile Change (Max)		%	-25
	Elongation Change (Max)		%	±3
IX	ASTM : 3 Oil Ageing 70hrs@ 150°C	D471	Shore A	±5
	Hardness Change		%	-25
	Tensile Change (Max)		%	-25
	Elongation Change (Max)		%	+5

NOTE : The above compound meets as per ASTM D2000 M2 HK 910 A1-10 B37 B38

The technical datasheets are derived on the basis of the service conditions and end user preference in which the values derived are given over a range of specifications which are cross checked over a variety of trials and approved with the end user conditions and calculated over a prolonged time



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